

Attorney Docket No. P12091

**REMARKS/ARGUMENTS****1.) Claim Amendments**

The Applicant has canceled claims 1-15 and added claims 16-24. Accordingly, claims 16-24 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

**2.) Examiner Objections - Specification**

In paragraph 1 of the Office Action, the Examiner stated that the specification did not contain an abstract. The specification did, in fact, contain an abstract, but it was titled in Norwegian (Sammendrag). The Applicant has rewritten the abstract, and it is attached hereto on a separate page. The Examiner's approval of the abstract is respectfully requested.

**3.) Examiner Objections - Claims**

In paragraph 2 of the Office Action, the Examiner objected to claims 1-12 due to informalities. The Applicant has canceled claims 1-12. New claims 16-24 have been added. The Examiner's consideration of new claims 16-24 is respectfully requested.

**4.) Claim Rejections – 35 U.S.C. § 112**

In paragraph 3 of the Office Action, the Examiner rejected claims 1-2, 5-6 and 11 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The Applicant has canceled claims 1-2, 5-6 and 11. New claims 16-24 have been added. The Examiner's consideration of new claims 16-24 is respectfully requested.

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**5.) Claim Rejections – 35 U.S.C. § 103(a)**

In paragraphs 4-5 of the Office Action, the Examiner rejected claims 1, 3-5 and 7-10 under 35 U.S.C. § 103(a) as being unpatentable over Kweon, et al. (US 6,057,943) in view of "Procedures for real-time Group 3 facsimile communication over IP networks" ITU-T, Series T: Terminals for Telematic Services, T.38, (06/98). The Applicant has canceled claims 1, 3-5, and 7-10.

In paragraph 6 of the Office Action, the Examiner rejected claims 2, 6 and 11-15 under 35 U.S.C. § 103(a) as being unpatentable over Kweon, et al. in view of "Procedures for real-time Group 3 facsimile communication over IP networks" ITU-T, Series T: Terminals for Telematic Services, T.38, (06/98) and further in view of "Digital cellular telecommunications system; Technical realization of facsimile group 3 non-transparent", ETSI TC-SMG (GSM 03.46), November 1996. The Applicant has canceled claims 2, 6, and 11-15.

New claims 16-24 have been added to better distinguish the claimed invention from Kweon, T.38, and GSM 03.46. The Examiner's consideration of new claims 16-24 is respectfully requested.

New claim 16 recites a mobile fax terminal comprising a fax adapter and a mobile phone portion connected to the fax adapter via an Internet Protocol (IP)-based interface. The fax adapter includes a fax interface for receiving fax data from a fax machine via standard fax protocols, a mapping function that maps the fax data onto Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) packets, and means for sending the mapped data over the IP-based interface to the mobile phone portion. The mobile phone portion includes a mapping function that maps the TCP or UDP packets received from the fax adapter onto Radio Link Protocol (RLP) frames, and a radio air interface function that transmits the RLP frames to an external radio telecommunication network.

The features of claim 16 are shown in Figures 1 and 2, and are described in the originally filed specification on page 4, lines 15-21, and lines 27-32. The Applicant contends that the combination of features recited in claim 16 is not taught or suggested by Kweon, T.38, or GSM 03.46. Therefore, the allowance of claim 16 is respectfully requested.

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Claims 17-20 depend from claim 16 and recite further limitations in combination with the novel and unobvious elements of claim 16. Therefore, the allowance of claims 17-20 is respectfully requested.

Claim 21 recites a system for providing non-transparent fax services in a mobile network. The system includes a mobile fax terminal, an interworking function (IWF) in the network, and a fax gateway. The mobile fax terminal includes means for receiving fax data from a fax machine via standard fax protocols; means for mapping the fax data onto TCP or UDP packets; means for mapping the TCP or UDP packets onto RLP frames; and means for transmitting the RLP frames to an external radio telecommunication network. The IWF in the network includes means for receiving the RLP frames from the mobile fax terminal; means for mapping the RLP frames to TCP or UDP packets; and means for sending the TCP or UDP packets to the fax gateway. The fax gateway includes means for receiving the TCP or UDP packets from the IWF; means for mapping the packets to standard fax data; and means for sending the fax data to a destination fax machine via standard fax protocols.

The features of claim 21 are shown in Figures 1 and 2, and are described in the originally filed specification on page 4, lines 15-21, and lines 27-32, and page 5, lines 1-6. The Applicant contends that the combination of features recited in claim 21 is not taught or suggested by Kweon, T.38, or GSM 03.46. Therefore, the allowance of claim 21 is respectfully requested.

Claim 22 recites a method of providing non-transparent fax services in a mobile network. The method includes performing within a mobile fax terminal, the steps of receiving fax data from a fax machine via standard fax protocols; mapping the fax data onto TCP or UDP packets; mapping the TCP or UDP packets onto RLP frames; and transmitting the RLP frames to an external radio telecommunication network.

The method of claim 22 is shown in Figures 1 and 2, and is described in the originally filed specification on page 4, lines 15-21, and lines 27-32. The Applicant contends that the combination of steps recited in claim 22 is not taught or suggested by Kweon, T.38, or GSM 03.46. Therefore, the allowance of claim 22 is respectfully requested.

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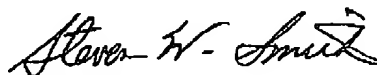
Claims 23 and 24 depend from claim 22 and recite further limitations in combination with the novel and unobvious elements of claim 22. Therefore, the allowance of claims 23 and 24 is respectfully requested.

### CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for claims 16-24.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



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**Abstract**

A system, mobile fax terminal, and method for providing fax service for mobile networks. A fax adapter receives fax data from a fax machine via standard fax protocols, maps the fax data onto Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) packets, and sends the mapped data over an Internet Protocol (IP)-based interface to a mobile phone portion. The mobile phone portion maps the TCP or UDP packets onto Radio Link Protocol (RLP) frames, and transmits the RLP frames to an external radio telecommunication network.